

Application Serial No. 09/811,417
Amendment after final dated February 17, 2005
Reply to final Office action of January 11, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Cancelled)
2. (Previously presented) The polishing device of claim 12, wherein said externally contacting shaft is formed in a ring-shaped hollow cylinder; and
under free conditions, the externally contacting shaft has a diameter which is a little bit larger than a diameter of an imaginary circle which externally contacts with the plurality of intermediate shafts whereby pressing load is created by means of deformation of the externally contacting shaft.
3. (Cancelled)
4. (Previously presented) The polishing device according to Claim 12, wherein the internally contacting cylinder is coupled with the table by means of at least one of a pin or a key.
5. (Previously presented) The polishing device according to Claim 12, wherein the internally contacting cylinder is formed in an inner race of the main bearing.
6. (Previously presented) The polishing device according to Claim 5, wherein the main bearing is formed by two lines of angular ball bearings, and the outer race of the main bearing is integrated with a housing of the polishing device.
7. (Previously presented) The polishing device according to Claim 12, wherein an electric motor is coupled with the input shaft, and the input shaft is offset more greatly than a radius of the electric motor from the center of the externally contacting shaft.
8. (Currently amended) ~~The polishing device of claim 13;~~ A polishing device comprising:
a table provided with hollow space beneath the central portion of the table;
a traction drive type reduction gear driving said table; and
a driving motor coupled with the reduction gear and disposed offset from the central rotational axis of the table;
said reduction gear comprising:
a center;
an externally contacting shaft arranged at said center;

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a plurality of intermediate shafts disposed equidistantly at a circumference of the externally contacting shaft, said intermediate shafts externally contacting the externally contacting shaft; and

an internally contacting cylinder with which the intermediate shafts internally contact and which is formed in a co-axially arranged hollow ring;

wherein the internally contacting cylinder is formed in co-axially arranged double hollow rings, and that an inside ring and an outside ring of the double hollow rings are coupled with each other by means of a coupling member;

wherein the externally contacting shaft is an input shaft; and

wherein a carrier rotatably supports the intermediate shafts, and output is taken from the carrier.

9. (Previously presented) A polishing device comprising:

a table;

a traction drive type reduction gear driving said table, said reduction gear comprising:

a center;

an externally contacting shaft arranged at said center;

a plurality of intermediate shafts disposed equidistantly at a circumference of the externally contacting shaft, said intermediate shafts externally contacting the externally contacting shaft; and

an internally contacting cylinder with which the intermediate shafts internally contact;

said externally contacting shaft being an input shaft;

a carrier rotatably supports the intermediate shafts, and output is taken from the carrier;

and

the externally contacting shaft is offset from the rotational center of the table, and an output shaft coupled to the carrier being disposed on an axis of an externally contacting shaft, and the output shaft being coupled with the table by means of a power transmission member.

10. (Previously presented) The polishing device according to Claim 9, wherein an electric motor is coupled with the externally contacting shaft.

11. (Cancelled)

12. (Previously presented) A polishing device comprising:

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a table provided with hollow space beneath the central portion of the table;
a traction drive type reduction gear driving said table; and
a driving motor coupled with the reduction gear and disposed offset from the central rotational axis of the table:

said reduction gear comprising:
a center;
an externally contacting shaft arranged at said center;
a plurality of intermediate shafts disposed equidistantly at a circumference of the externally contacting shaft, said intermediate shafts externally contacting the externally contacting shaft; and
an internally contacting cylinder with which the intermediate shafts internally contact and which is formed in a co-axially arranged hollow ring;
wherein at least one of the intermediate shafts is an input shaft.

13. (Previously presented) The polishing device of claim 16, wherein the externally contacting shaft is an input shaft.

14. (Previously presented) The polishing device of claim 16, wherein said polishing device is a polishing table.

15. (Previously presented) A polishing device comprising:
a table; and
a traction drive type reduction gear driving said table, said reduction gear comprising:
a center;
an externally contacting shaft arranged at said center;
a plurality of intermediate shafts disposed equidistantly at a circumference of the externally contacting shaft, said intermediate shafts externally contacting the externally contacting shaft; and
an internally contacting cylinder with which the intermediate shafts internally contact;
said externally contacting shaft being an input shaft,
a carrier rotatably supporting the intermediate shafts, and output being taken from the internally contacting cylinder.

16. (Currently amended) A polishing device comprising:

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a table provided with hollow space beneath the central portion of the table;
a traction drive type reduction gear driving said table; and
a driving motor coupled with the reduction gear and disposed offset from the central rotational axis of the table:

said reduction gear comprising:

a center;

an externally contacting shaft arranged at said center;

a plurality of intermediate shafts disposed equidistantly at a circumference of the externally contacting shaft, said intermediate shafts externally contacting the externally contacting shaft; and

an internally contacting cylinder with which the intermediate shafts internally contact and which is formed in a co-axially arranged hollow ring;

wherein the internally contacting cylinder is formed in co-axially arranged double hollow rings, and that an inside ring and an outside ring of the double hollow rings are coupled with each other by means of a coupling member; and

wherein at least one of the intermediate shafts is an input shaft.

17. (Previously presented) A polishing device comprising

a table provided with hollow space beneath the central portion of the table;
a traction drive type reduction gear driving said table; and
a driving motor coupled with the reduction gear and disposed offset from the central rotational axis of the table:

said reduction gear comprising:

a center;

an externally contacting shaft arranged at said center;

a plurality of intermediate shafts disposed equidistantly at a circumference of the externally contacting shaft, said intermediate shafts externally contacting the externally contacting shaft;

an internally contacting cylinder with which the intermediate shafts internally contact and which is formed in a co-axially arranged hollow ring; and

an output shaft, wherein the internally contacting cylinder and the output shaft form co-

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axially arranged double hollow rings.

18. (Previously presented) The polishing device of claim 16, further comprising a support member, wherein the internally contacting cylinder and the support member form double hollow rings.